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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,525	12/27/2004	Frans A Audenaert	57402US004 6404	
32692 3M INNOVAT	7590 10/18/2007 TVE PROPERTIES CC	EXAM	EXAMINER	
PO BOX 3342	7	SELLMAN, CACHET I		
ST. PAUL, MN 55133-3427			ART UNIT	PAPER NUMBER
			1792	
			NOTIFICATION DATE	DELIVERY MODE
			10/18/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

LegalUSDocketing@mmm.com LegalDocketing@mmm.com

	Application No.	Applicant(s)			
	10/500,525	AUDENAERT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Cachet I. Sellman	1792			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 30 Ju	<u>ine 2004</u> .				
2a) This action is <b>FINAL</b> . 2b) ⊠ This	☐ This action is FINAL. 2b) ☑ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-12 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-3,10 and 12</u> is/are rejected.					
7) Claim(s) <u>4-9 and 11</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) ☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b) Some * c) None of: 1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
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Attachment(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
3) Ninformation Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/17/2007.	atent Application				

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## **DETAILED ACTION**

## Claim Objections

1. Claims 4-9 and 11 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim can not depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

. A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 10 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Allewaert et al. (US 6162369).

Allewaert et al. discloses a fluorochemical composition, which is used to impart stain and water resistance properties to a substrate. The composition comprises a fluorochemical oligomer which is formed by free radical oligomerization of fluorochemical monomers with a hydrocarbon monomer. The fluorochemical monomers comprise a fluoroaliphatic radical having 3 – 18 carbon atoms (col. 4, lines 31-49), an organic divalent linking group (col. 4, line 66 – col. 5, line 4) and a free radically polymerizable groups that contain an ethylenically unsaturated moiety capable of polymerization with itself or each other (see col. 5, lines 10-18 and see col. 5, lines 30-36). The hydrocarbon monomer can be vinylchloride and vinylidene chloride (see col. 6,

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lines 8-16). The composition is applied to the substrate in an amount of 0.01-5% by weight based on the weight of the substrate (col. 9, line 31-37). The composition can be applied to substrates such as plastic, metal, glass, fibrous materials such as textile fabrics, wood, non-wovens and paper (col. 10, lines 11-15). For the molar percentages see examples as required by claims 1-3, 9 and 12.

Claims 1-3,10 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated 4. by Coppens et al. (US 5536304).

Coppens et al. teaches a composition used as a water and oil repellant which comprises a fluorochemical component can have the formula: R<sub>f</sub>R<sup>1</sup>OCOC(R<sup>2</sup>)=CH<sub>2</sub> which is a copolymer of one or more fluoroaliphatic radical containing acryalte or methacryalte monomers (Rf), R1 can be a divalent linking group, R2 can be hydrogen or methyl (see col. 3, lines 36- col. 4, line 1) and one or more fluorine free (or hydrocarbon) terminally ethylenicallyunsaturated co-monomers. The fluoroaliphatic radical has 3-14 carbons and the fluorine free (or hydrocarbon) terminally ethylenicallyunsaturated co-monomers can be vinylchloride or vinylidene chloride (col. 4. lines 31-37). The fluorinated monomer is present in the amount of 50-95% and the co-monomer is in the amount of 5-50%, which may vary (col. 4, lines 38-40). The composition is applied to the substrate which can be textile fabrics, fibres, non-wovens, leather, paper plastic, wood, metal, glass, etc (col. 6, lines 37-41) in an amount of 0.01-5% based on the weight of the substrate as required by claims 1-3, 9 and 12.

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cachet I. Sellman whose telephone number is 571-272-0691. The examiner can normally be reached on Monday through Friday, 7:00 - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/William Phillip Fletcher III/ Primary Examiner